

ABSTRACT

[Purpose] To provide a lead holding structure of a mechanical pencil where a predetermined lead holding force is maintained so that a lead does not move even if a writing pressure is repeatedly applied to the lead and where a so-called biting-off of a lead (break) is prevented without damaging the lead in repeatedly sending forward and backward operations.

[Configuration] An outer periphery 5b of a chuck 5 corresponding to a lead holding section 5a is composed of a peripheral surface (horizontal surface) 5c and a peripheral surface (inclined surface) 5d. The peripheral surface 5c extends from substantially the center of the outer periphery 5b to its forward end and is substantially parallel to an axis or inclined toward the axis. The peripheral surface 5d extends from substantially the center backward and is a surface orthogonal to the axis or inclined toward the axis. The inner periphery of a fastener 6 on which the outer periphery 5b of the chuck 5 is fitted is formed as an inclined surface 6a inclined backward to the axis at a predetermined angle. When the chuck 5 is fastened with the fastener 6 while holding a lead 10, the center of the chuck 5 is a contact point 5e at which the fastener 6 and the inclined surface are in contact with each other. Further, the point at which an orthogonal line from the contact point 5e to the inclined surface and the inner periphery 5a of the lead holding section of the chuck 5 intersects is a load application point 5f in lead holding, and the load application point 5f is substantially the center of a lead holding length C.